WHAT IS CLAIMED IS:

 An in-vehicle warning system to warn motorists of approaching emergency vehicle comprising;

a global positioning system receiver in said emergency vehicle;

an on-board diagnostic computer receiving the output from said global positioning system receiver and deriving pertinent vehicle data in digital form;

an emergency vehicle transmitter for transmitting a primary audio signal representing pertinent vehicle data and a sub-carrier interrupt;

a radio receiver capable of receiving sub-carrier interrupts in said motorist's vehicle receiving said primary audio signal representing pertinent vehicle data from said emergency vehicle transmitter;

whereby said radio receiver broadcasts an audio warning about the approach of an emergency vehicle.

- 2. The system according to Claim 1 including a master controller receiving the output from said emergency vehicle onboard diagnostic computer, said master controller generating said primary audio signal to be sent by said transmitter.
- 3. The system according to Claim 2 including a dash-board based indicator in said motorist's vehicle for indicating the approach of an emergency vehicle.

- 4. The system according to Claim 3 in which said dash-board based indicator is an icon that is illuminated when an output from said emergency vehicle transmitter is received.
- 5. The system according to Claim 4 in which said icon is brightly illuminated letters "EV" on a dashboard display.
- 6. The system according to Claim 4 in which dash-based visual indicator includes icons around a central icon that indicate relative position of an emergency vehicle.
- 7. The system according to Claim 6 in which said central icon is a brightly illuminated "EV".
- 8. The system according to Claim 7 in which said icons around said central icon comprise a plurality of dots in a circle around said central icon.
- 9. The system according to Claim 8 in which said plurality of dots around said central icon comprises eight brightly illuminated dots equally spaced in a circle around said central icon.
- 10. The system according to Claim 9 in which at least one of said dots is illuminated to indicate the relative position of an emergency vehicle.

- 11. An in-vehicle emergency warning system comprising; an on-board computer in said emergency vehicle;
- a global positioning system transceiver connected to said emergency on-board computer for calculation of relative position of said emergency vehicle;
- a master controller receiving the output from said emergency vehicle on-board diagnostic computer;
- a transmitter on said emergency vehicle, said transmitter receiving and transmitting audio and data signals from said master controller on a pre-selected sub-carrier frequency to a motorist's vehicle;
- a radio in said motorist's vehicle capable of receiving an interrupt signal to interrupt standard broadcasts and receive audio and data from said emergency vehicle;

said emergency vehicle transmitter transmitting an interrupt signal to interrupt standard broadcasts on said motorist's radio and an audio signal alerting a motorist of an approaching emergency vehicle.

12. The system according to Claim 11 in which;

said emergency vehicle transmitter receiving position information from said global positioning system and on-board computer to a master controller; said master controller selecting and delivering an appropriate emergency audio signal representing the position of an emergency vehicle relative to a motorist's vehicle to said transmitter;

whereby said emergency audio signal is heard by said motorist over speakers connected to said radio.

- 13. The system according to Claim 11 in which said emergency vehicle on-board computer calculates emergency vehicle information from data received from said global positioning system; said position information being delivered to a master controller; said master controller deriving pertinent information from said on-board diagnostic computer output and generating an output to said transmitter; said transmitter an audio primary frequency and a data sub-carrier frequency to said motorist's radio.
- 14. A method of warning motorists of the approach of emergency vehicles comprising;

deriving pertinent emergency vehicle information by an onboard diagnostic computer connected to a global positioning system receiver;

processing a data stream from said on-board diagnostic computer in a master controller;

transmitting information generated by said master controller to a motorist's radio capable of receiving sub-carrier interrupts;

whereby said sub-carrier interrupt capable radio broadcasts an audio message warning a motorist of an approaching emergency vehicle.

- 15. The method according to Claim 14 wherein said emergency vehicle on-board diagnostic computer derives pertinent information regarding vehicle speed, location and position.
- 16. The method according to Claim 14 wherein said information transmitted from said emergency vehicle to said motorist's radio comprises a primary audio frequency and a data sub-carrier frequency.
- 17. The method according to Claim 14 including a visual indicator for indicating the approach of an emergency vehicle on a dash-based visual display.
- 18. The method according to Claim 17 in which said dashboard visual display illuminates an icon to indicate the approach of an emergency vehicle.
- 19. The method according to Claim 18 in which said dash-board visual display illuminates one of a plurality of dots in a circle around said icon to indicate the relative position of an emergency vehicle.
- 20. The method according to Claim 19 in which said illuminated icon on said dashboard visual display is a large "EV" icon.